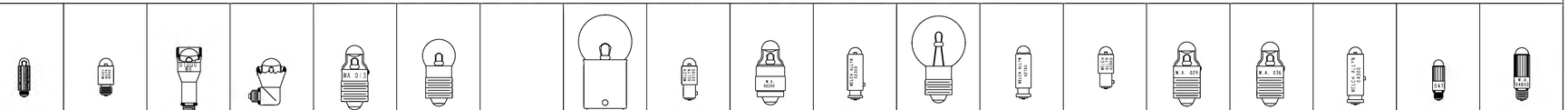
D | 106136 | H

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF WELCH ALLYN, INC. AND SHALL NOT BE REPRODUCED, OR COPIED, OR USED AS A BASIS FOR MANUFACTURE OR SALE OF EQUIPMENT OR DEVICES WITHOUT WRITTEN PERMISSION.

REV	DESCRIPTION	ECN	INIT	DATE	APPR
A	REL TO PROD ENG	5-24339	SB	5-12-92	JC
B	REV'D SHEET 2	5-25816	SB	2-22-93	JC
C	REV'D 01200 SHEET 2	5-27874	DLS	2-10-94	EG
D	REV SH 2 & 3, ADD 08400 & 06400	5-28995	SB	9-1-94	JDC
E	REV'D SH 2 & 3	5-29330	SB	10-26-94	JDC
E	REV'D SH 2, TRANSLATED TO PRO/E	5-40710	CRW	1-11-00	ROR
G	REV. G SH 2 & 3	5-41380	DCS	5-12-00	JMF
H	REV. H SH 2	5-42565	TJS	2-28-01	JMF

WELCH ALLYN INCANDESCENT LAMPS



SUPPLIER NO.	---	---	---	---	---	---	G.E.14	---	G.E.64	---	---	---	G.E.157	---	---	---	G.E.243	---	---	---
W.A. MODEL NO.	00200	00600	00900	01000	01100	01300	01400	01800	02000	02100	02200	02300	02500	02700	02800	02900	03600	04300	04700	04800
OVERALL LENGTH NOMINAL	.747	.546	.529	.940	.650	.900	.938	.876	1.438	.591	.900	.738	1.219	.747	.591	.895	.922	.810	.568	.743
MAX O.D.	.217	.169	.217	.350	.415	.391	.460	.367	.750	.217	.421	.217	.750	.217	.217	.374	.389	.230	.169	.219
THREAD	#8-32	1/8-72	#8-32	#8-32	#8-32	3/8-14 MIN SCR.	3/8-14 MIN SCR.	#8-32	D.C. PIN	BAY. PIN	SHOULDER STOP	BAY. PIN	3/8-14 MIN SCR.	---	BAY. PIN	3/8-14 MIN SCR.	3/8-14 MIN SCR.	BAY PIN	1/8-72	#8-32
THD LENGTH	.080	.062	.125	.094	.094	.285	.275	.125	--- △5	--- △5	--- △5	--- △5	.250	--- △5	--- △5	.285	.250	--- △5	.078	.110
DESIGN VOLTAGE (V) (NOMINAL)	2.5	2.5	2.5	2.5	2.5	2.2	2.47	2.5	7.0	2.5	2.2	2.2	5.8	2.2	2.5	2.5	2.33	2.5	2.5	2.5
DESIGN CURRENT (A) (NOMINAL)	.380	.320	.380	.290	.280	.180	.300	.450	.630	.380	.180	.180	1.10	.700	.280	.300	.270	.380	.280	.380
WATTS (REF)	.95	.8	.95	.725	.7	.396	.741	1.13	4.41	.95	.396	.396	6.38	1.54	.7	.75	.629	.95	.7	.95
LIFE (HOURS) (DESIGN) AVERAGE	14	30	14	12	13	15	15	12	1000	14	15	15	50	35	14	11	10	14	14	14
LIGHTOUT F.C. (MINIMUM)	14 △1	7 △2	16 △2	240 △11	20 △2	55 △2	.5 △10	--- △5 △16	3.0 △2	16 △10	55 △2	9 △2	73 △2	7 △13	0.4 △10	70 △2	--- △7	16 △2	30 △2	7.5 △1
LENS	YES	NO	NO	YES	YES	YES	NO	NO	NO	NO	YES	NO	NO	YES	NO	YES	YES	NO	YES FROSTED	YES FROSTED
COLOR TEMP (K) (AVERAGE)	2815° / 2650° △12	2600° △12	2800° △12	2815° △12	2700° △12	1950° △12	2500° △12	2640°	2750° △12	2800° △12	1950° △12	2800° △12	2950° △12	2710° △12	2700° △12	2750°	2500° △12	2800° △12	2650° △12	2690° △12
SPOT SIZE (INCHES) AT END OF LAMP	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	.188	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED
SPOT SIZE (INCHES)	.5-3.0 △4	SPOT UNDEFINED	SPOT UNDEFINED	2.8-5.1 △13	2.5-5.1 △3	.75-3.0 △14	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	3.0	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	2.0 △3	SPOT UNDEFINED	SPOT UNDEFINED	3.5-4.5 △8	SPOT UNDEFINED

NOTES:

1. THIS DRAWING IS INTENDED FOR REFERENCE USE ONLY. REFER TO EACH MODEL NUMBERS' INDIVIDUAL DRAWING FOR COMPLETE SPECIFICATIONS.
△2 2 1/2" FROM END OF LAMP, AS MEASURED WITH A WESTON 614 LIGHT METER.
△3 2 1/2" FROM END OF LAMP.
△4 .50 FROM TIP (2350II) MEASURED WITH G.E. MODEL DR-200 LIGHT METER.
△5 NOT APPLICABLE.
△6 LENGTH OF BAY PIN OUTSIDE BASE.
△7 NOT AVAILABLE.
△8 6" FROM END OF LAMP, BEFORE FROSTING.
△9 3" FROM END OF LAMP, BEFORE FROSTING.
△10 MEAN SPHERICAL CANDLE POWER.
△11 EG & G MODEL 550 RAD/PHOTO METER WITH A 550-18F COSINE PROBE & APERTURE. REFER TO PRINT FOR APERTURE DIAMETER & FIXTURE DISTANCES.
△12 AT CENTER OF FILAMENT/ACROSS ENTIRE FILAMENT.
△13 6" FROM END OF LAMP.
△14 3" FROM END OF LAMP.
△15 CURVED FILAMENT.
△16 .004 FROM A Ø.188 APERTURE ON AN INTEGRATING SPHERE.
△17 .050 FROM END OF LAMP.
△18 TEST FIXTURE.
△19 BAR FILAMENT.

TRANSLATED FROM ANVIL TO PRO/E

MATERIAL:	PART NO.		DESCRIPTION
	DRAWN: S BUERKLE	DATE: 4-28-92	Welch Allyn, SKANEATELES FALLS, NEW YORK U.S.A.
FINISH:	DESIGNED:		TITLE: LAMPS
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE PLATING -TOLERANCES- .XX = ±.02 ANGLES: ±1/2° .XXX = ±.005 TOLERANCES PER ANSI Y14.5 REMOVE BURRS & SHARP EDGES EXTERNAL THDS = CLASS - 2A INTERNAL THDS = CLASS - 2B	CHECKED: CFH	5-5-92	
	APPROVED: JC	5-13-92	CODE IDENT 64475 | D | DRAWING NO. 106136 | REV H
	REL TO PROD: RDS	2-22-93	SCALE: FULL | DO NOT SCALE | SHEET 1 OF 3

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF WELCH ALLYN, INC. AND SHALL NOT BE REPRODUCED, OR COPIED, OR USED AS A BASIS FOR MANUFACTURE OR SALE OF EQUIPMENT OR DEVICES WITHOUT WRITTEN PERMISSION.

REV	DESCRIPTION	ECN	INIT	DATE	APPR
A	REL TO PROD ENG	S-24339	SB	5-12-92	JC
B	ADDED MODEL #01200	S-25816	SB	2-22-93	JC
C	REV'D 01200	S-27874	DLS	2-10-94	EG
D	ADDED 06400, REV'D 04900 & 03100	S-28995	SB	9-1-94	JDC
E	REV'D 06400 F.C. 4100 WAS 4000 (FOR .2)	S-29330	SB	10-26-94	JDC
F	DEL'D G.E. EPN (04100); .800 WAS .660-2.00 WAS 1.65-90 WAS 70-3075" WAS 3025"/3200" (06000)	S-40710	CRW	1-11-00	KGR
G	ADDED MODEL #03500. ADDED "HPX" TO MODEL No's. 03100 04900 & 06000.	S-47380	DCS	5-12-00	JMF
H	ADDED 04430 AND 04450	S-42565	TJS	2-28-01	JMF

WELCH ALLYN HALOGEN LAMPS

	(B)			(G) HPX				(G) 03200				(SCALE 1:2) G.E. EJA				(H) (SCALE 1:2) FRA/CG GE	(H) (SCALE 1:2) 47-24 EIKO			(G) HPX	(G) HPX				(B) (SCALE 1:2)
SUPPLIER NO.	---	---	---	---	---	---	---	03200	---	---	---	G.E. EJA	--- (F)	---	---	FRA/CG GE	47-24 EIKO	---	---	---	---	---	---	---	---
W.A. MODEL NO.	01200	02600	03000	03100	03200	03300	03400	03500	03700	03900	04000	04050	04100	04200	04400	04430	04450	04500	04600	04900	06000	06100	06200	06300	06400 THIS DWG-2 (E)
OVERALL LENGTH NOMINAL	1.039	1.043	.864	.747	.747	.591	.744	---	.707	.561	1.139	1.725	1.412	1.75	.810	1.75	1.75	.865	.722	.875	.744	1.412	.760	---	1.75
MAX O.D.	.366	.495	.250	.250	.250	.217	.217	---	.292	.217	.460	1.969	.440	2.00	.230	1.970	1.970	.250	.292	.312	.217	.440	.250	---	2.00
THREAD	BAY PIN	TWO PIN	BAY PIN	---	#12-28	BAY PIN	---	---	#10-32	BAY PIN	#10-32	PIN	#10-32	2 PIN	BAY PIN	2 PIN	2 PIN	---	#8-32	BAY PIN	#10-32	#10-32	---	2 PIN	PIN
THD LENGTH	--- 5	.075-.095 5	--- 5	--- 5	.125	--- 5	--- 5	---	.125	--- 5	.063	--- 5	.187	--- 5	--- 5	--- 5	--- 5	--- 5	.125	--- 5	.080	.187	--- 5	--- 5	--- 5
DESIGN VOLTAGE (V) (NOMINAL)	4.65	6.3	3.5	3.5	6.5	2.5	2.5	3.5	3.5	2.5	6.0	21	14.5	12	2.5	12	12	3.5	2.5	3.5	2.5	15.10	3.8	12	12
(C) DESIGN CURRENT (A) (NOMINAL)	2.58	2.1	.720	.775 (D)	.430	.660	.660	---	.700	.660	.705	7.14	2.25	2.9	.660	2.9	4.2	.740	.740	.775 (B)	.800 (F)	2.22	.645	1.67	1.67
(C) WATTS (REF)	12.00	13.23	2.52	2.71 (D)	2.79	1.65	1.65	---	2.45	1.65	4.23	150	32.62	35	1.65	35	50	2.59	1.85	2.71 (B)	2.00 (F)	34	2.45	20	20
(C) LIFE (HOURS) (DESIGN) AVERAGE	92	50	20	16.5 (D)	30	20	20	16.5	40	20	75	---	100	50	20	5000	3000	40	75	17 (B)	20	100	20	2000	3000
(C) LIGHTOUT F.C. (MINIMUM)	20.4 10	15.3 10	210 11	715 (D) 11	88 11	120 11	335 11	---	1.5 10 9	120 11	1400 MW/CM 6	--- 7	2300 8	--- 7	120 11	525	575	2.40 10	.95 10 9	273 (B) 11 5	90 (F) 11	2300 8	585 11	---	4100 (E)
LENS	NO	NO	NO	YES	YES	NO	YES	YES	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	YES	---	---
COLOR TEMP (K) (AVERAGE)	3200° 12	3050° 12	3150° 3340° 12	3170° (D) 3550° 12	3000° 3225° 12	3025° 3200° 12	3025° 3200° 12	---	2900°	3025° 3200° 12	3100° 3100° 12	---	3250° 3250° 12	3300° 12	3025° 3200° 12	3000°	3000°	3150°	2950°	3150° (D) 3350° 12	3075° (F) 12	3225° 3300° 12	3100° 3100° 12	---	---
SPOT SIZE (INCHES) AT END OF LAMP	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	---	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	---	---	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	12 DEG BEAMSPREAD
SPOT SIZE (INCHES)	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	.5 9	SPOT UNDEFINED	SPOT UNDEFINED	.5 9	---	SPOT UNDEFINED	SPOT UNDEFINED	.200 .250 1	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	11.4" @ 24"	13" @ 24"	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED

MATERIAL: 4	PART NO.		DESCRIPTION
FINISH: 4	DRAWN S BUERKLE	DATE 4-28-92	Welch Allyn SKANEATELES FALLS, NEW YORK U.S.A.
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE PLATING -TOLERANCES- .XX = ±.02 ANGLES: ±1/2° XXX = ±.005 TOLERANCES PER ANSI Y14.5 REMOVE BURRS & SHARP EDGES EXTERNAL THDS = CLASS - 2A INTERNAL THDS = CLASS - 2B	DESIGNED		TITLE: LAMPS
	CHECKED CFH	5-5-92	
	APPROVED JC	5-13-92	CODE IDENT 64475 D DRAWING NO. 106136 REV H
	REL TO PROD RDS	2-22-93	SCALE FULL DO NOT SCALE SHEET 2 OF 3

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF WELCH ALLYN, INC. AND SHALL NOT BE REPRODUCED, OR COPIED, OR USED AS A BASIS FOR MANUFACTURE OR SALE OF EQUIPMENT OR DEVICES WITHOUT WRITTEN PERMISSION.

REV	DESCRIPTION	ECN	INIT	DATE	APPR
A	REL TO PROD ENG	S 24339	SB	5-12-92	JC
D	ADDED 08400	S 28995	SB	9-1-94	JDC
E	REV'D 07200 & 08300	S 29330	SB	10-26-94	JDC
F	TRANSLATED TO PRO/E	S 40710	CRW	1-11-00	ROR
G	ADDED MODEL #08500. ADDED "HPX" TO MODEL #08200.	S 41380	DCS	5-12-00	JMF

WELCH ALLYN HALOGEN LAMPS

	(E)				(G) HPX		(D)	(G)
SUPPLIER NO.	---	---	---	---	---	---	---	---
W.A. MODEL NO.	07200	07600	07800	08100	08200	08300	08400	08500
OVERALL LENGTH NOMINAL	.848 (E)	.866	1.062	1.220	.844	.839	1.000	.666
MAX O.D.	.3135	.500	.330	.354	.3135	.3135	.3135	.267
THREAD	---	15/32-32	#10-32	2 PIN	BAY PIN	---	---	---
THD LENGTH	--- 5	.150	.178	.295 8	--- 5	--- 5	--- 5	---
DESIGN VOLTAGE (V) (NOMINAL)	2.5	2.5	6.0	12	3.5	3.5	2.50	3.60
DESIGN CURRENT (A) (NOMINAL)	.740	.425	.720	1.66	.690	.740	.777	1.10
WATTS (REF)	1.85	1.06	4.32	20	2.42	2.59	1.94	3.96
LIFE (HOURS) (DESIGN) AVERAGE	>35 (E)	10	75	2000	25-35	>25	18	30
LIGHTOUT F.C. (MINIMUM)	2.3 1	300 1	220 1	350 LUMENS	3.8 1	5.9 (E) 1	TBD	4.3MSCP
LENS	NO	YES	YES	NO	NO	NO	NO	NO
COLOR TEMP (K) (AVERAGE)	>2850	3050° 3175°	3050° 3150° 2	3000°	>3000° 2	>3075° 2	>3050°	3150°
SPOT SIZE (INCHES) AT END OF LAMP	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED
SPOT SIZE (INCHES)	SPOT UNDEFINED	.375 9	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED	SPOT UNDEFINED

MATERIAL: -

FINISH: -

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE PLATING
-TOLERANCES-
.XX = ±.02 ANGLES: ±1/2°
XXX = ±.005
TOLERANCES PER ANSI Y14.5
REMOVE BURRS & SHARP EDGES
EXTERNAL THDS = CLASS - 2A
INTERNAL THDS = CLASS - 2B

PART NO.		DESCRIPTION
DRAWN S BUERKLE	DATE 4-28-92	Welch Allyn SKANEATELES FALLS, NEW YORK U.S.A.
DESIGNED		TITLE: LAMPS
CHECKED CFH	5-5-92	
APPROVED JC	5-13-92	CODE IDENT 64475 | D | DRAWING NO. 106136 | REV G
REL TO PROD RDS	5-15-92	SCALE FULL | DO NOT SCALE | SHEET 3 OF 3